## COLLEGE OF HAWAII MAN CITES WIDE INVESTIGATION OF MAINLAND PLANS

ELECTRIC LIGHT AND POWER CABLES AND TELEPHONE LINES FORCED UNDERGROUND-BEAUTY OF TROPICAL FOLIAGE HERE WOULD BE GREATLY ENHANCED-HOW MUNICIPALITIES ELSEWHERE ARE MOVING

(BY VAUGHAN MacCAUGHEY,)

(College of Hawaii.) At a recent meeting of the Manoa Improvement club the writer stated ber of those present. The writer, to troit possesses over 100 miles of corroborate his statement and to in- municipally-owned conduit. dicate the wide use of conduits, sent to the mainland for accurate and detailed information, which is presented herewith in full.

Honolulu is behind the times in her The tropical beauty of the city would ent wires and poles must be removed be enhanced many fold if street poles at the rate of 21/2 miles of street per and wires were largely eliminated.

quarter of a century ago the scheme of placing electric light and power commercially impracticable, today, are removed as streets are repaved. gives revenue receipts as \$3,270. according to Professor Charles Zuehlin, "the number of cities in which there are private conduits is legion." Many cities also possess municipal conduits, among which number are Detroit, Milwaukee, Chicago and Philadelphia, each with over 100 miles of municipal conduits, and Seattle, New York and Boston, each possessing over 50 miles of municipal conduit.

Movement to Eliminate Poles and Overhead Wires: The following cities are among those which have made definite progress towards the total elimination of overhead wires:

1. New York City: The city government is today negotiating for the removal of existing wires and poles, but it has the right to order removal at any time. No new wires or poles may be erected without permission. None allowed in the conduit district. Thus far all wires in Manhattan have have been removed and much wire has been moved from the other boroughs. In addition to the 50 miles of city conduit above mentioned it is estimated that there are 18,000 miles cipal science." electrical conduits privately owned and subways.

2. Chicago: Present wires and poles may be removed from paved poles but the matter is handled in franchises and by cooperation with the companies. Thus far it is said that wires have been removed from all places where they would be objectionable. Professor Zueblin says of the Chicago conduits: "Chicago has found the conduit system so great a protection against storms, fires and other interferences with overhead nance; others by permit from board voluntarily put wires in subways in

law in regard to the removal of present wires or poles or regulating the erection of new wires or poles. How-

the residence districts."

4. Boston: Public utility companies are required by law to clear existing wires and poles from 5 miles of streets each year; no new wires or permission may be obtained when justified by sufficient reasons. Wires in accordance with the direction of and poles throughout the city to a large extent have been eliminated.

5. Cleveland: Each company, choosing the district, must remove 14 approximate cost of \$1,056, per duct miles per year of wires and poles, mile. The type of construction is: There is no law to prohibit the erec- Tiley or fibre conduit encased in contion of new poles and wires, except crete with concrete or brick manin the conduit district (This depart- holes and distributor boxes. The pubment has no data easily accessible lic service corporations pay the city in regard to the extent of the conduit 4 cents per duct, foot for use of consystem.),

poles or wires are subject to permit- ceipts, 1911-\$1,674. they usually are allowed if outside 19. Auburn, N. Y.: 464,885 duct. conduit district. A large area in the feet of conduit has been installed at built-up district of the city has been a cost of .2375 per duct. foot. Type cleared entirely of overhead wires. of construction: Tile and fibre duct, Baltimore 'not only has a larger in concrete. Public service corporamunicipal conduit system than any tions pay the city 5 cents per duct. other city, but probably has done more foot per year for use of conduit. City than all of the cities in America in reports only 22 per cent of ducts are municipal provision for buried wires." leased hence revenue is not suffic-(Zueblin) \$2,000,000 has been appro- ient to pay maintenance cost and inpriated for a conduit or subway sys- terest on investment. The approxitem in which to put wires, etc. A mate cost to the city was \$1,000 per half million dollars was spent in 1913 year. Revenue receipts, 1911-\$4,767. has published an article by

wires allowed in the conduit zone- interest on bonds." elsewhere by permission. Two ordinances aiming at the elimination of conduit have been laid at a cost of overhead wires and poles from all streets were introduced in the city council in the months of January and February, 1916. The first of these two ordinances has been passed and additional construction. approved. It provides for the placing laid 11/2 miles of safety cables in the and telegraph lines on Grant Boule- ground for electric light. vard between Seventh avenue and conduits, which it rents to public serv-Center avenue-the work to be completed by October, 1916. The second duct foot. ordinance provides for the removal of all overhead wires and their supporting poles, except trolley wires and conduits for its police and fire departtheir supports, from all Pittsburg ments. The two telephone and elecstreets and alleys. At present it is tric light companies are required, unbeing advocated that arrangement be der their franchises, to furnish space made so that the second ordinance, if in their condults free for the use of passed, be put in force very gradu- the city's fire and police wires. Two

permit. It is stated that the companies themselves have taken the initiative in the removal of existing poles and wires and that thus far that "many progressive cities upon legislation has not been necessary. the mainland were introducing con- The district within half a mile of the duit systems throughout the residen- city hall has been cleared and some tial districts." This statement was degree of progress has been made received with incredulity by a num- elsewhere. As mentioned above De-

9. San Francisco: Companies op- sus: 5.83 total mileage; 2:16 used by erating before 1911 may erect new city. wires and poles without permit; comobtain permission; no poles or wires city. overhead wiring and lack of conduits. allowed in under-ground district. Presyear. Twenty-two and one half miles 2.50 total mileage: 2.50 used by city. Underground Conduits: Although a of streets have thus far been cleared. 10. Milwaukee: New wires and 1,60 total mileage. poles are allowed except in the down-

> over 100 miles of municipal conduit. 11. Cincinnati: There is no law in this city prohibiting the erection of new wires or poles. When found necessary the city may order the removal of existing wires and poles. No specific law has been passed.

12. Washington: The erection of electric light and power wires is prohibited in fire limits. Generally speaking, existing poles and wires must be removed from within fire limits. Progress of wires' removal: All telegraph wires in fire limits; almost all telephone wires in fire limits; almost all lighting wires in fire limits. Up to June 30, 1913, the street railways had nearly 1,000,000 feet of conduit, the and the telegraph companies nearly if desirable: 100,000, making a total of 1,800,000 feet, not including over two miles of and Poles from Streets." Compiled by cd, must be stored in a cellar or other express company now has five trucks Federal conduit and pipe lines. Accord. St. Louis Municipal Reference Libra. cool place. When it is dry it will auto- in service and has been forced to hire ing to Charles Zueblin: "In the dis- ry, Andrew Linn Bostwick, Librarian. matically pop in any average warm an extra one this week to take care of posal of overhead wires Washington 3 pp. April 21, 1916. (This report was room. excels in civic art, Baltimore in muni-

law in regard to the erection of new poles and wires but certain blocks, each year, must be cleared of existstreets by order of the city governing wires and poles in accordance ment. There is no general law in re- with orders of city council. Fifty-four gard to the erection of new wires and miles of streets thus far have been cleared.

14. Jersey City: Erection of new poles and wires must be authorized by the commissioners. Commission ers may also order the removal of existing wires or poles.

15. Kansas City, Mo.: New wires and poles may be allowed by ordiwires that the telephone company has of public works; none allowed in underground section. Existing poles and wires must be removed from certain 3. Philadelphia: This city has no downtown area. The downtown section has been about cleared from these obstructions.

16. Seattle: No new poles may be ever, all overhead wires have been erected in the underground district; removed from the business district. removal of existing poles and wires As stated above the city at present from business district must be compossesses over 100 miles of municipal pleted in 3 years. Downtown section now about cleared. This city, as mentioned above, has over 50 miles of municipal conduit.

17. Los Angeles: New poles and wires are prohibited in the conduit poles are tolerated in the under district; elsewhere by permit. Two ground district, but in other places miles or more of streets must be cleared of overhead wires each year council.

18. Utica, N. Y.: This city has constructed 96.69 duct. lines at an duit. Revenue is sufficient to pay 6. Baltimore: The Electric Com- cost of maintenance and interest on mission has the power to order the investment. City is contemplating adremoval of poles and wires; new ditioal construction. Revenue re-

and by January, 1914, the city had built 178 miles of conduit. A separate 4,226 linear feet of conduit, as folsystem of 261/2 miles of conduit is for lows: 1,310 of 15 duct.; 1,434 of 10 police and fire telegraph; the tele- duct.; 236 of 8 duct.; 1,156 of 6 duct.; phone company owns over 50 miles of and 84 of 4 duct. Average cost of inconduit. Nearly 3,000,000 feet of cable stallation, \$15 per lineal foot. Type are housed in the municipal conduit of construction: Vitrified tile ducts, system from which the city derives a 3 1-2 inches square, bore, encased in revenue of \$128,000, not including the concrete shell, single ducts laid with \$15,000 municipal service which alternate joints, double manholes should be credited to the city. The with compartment for high tension "American City." in its issue of June, and one for low tension wires. Fur-Mayor Preston of Baltimore which il- reports that a rental of about 6 cents lustrates and describes the city's con. per duct foot per year is charged against the several public service 7. Pittsburg: No new poles or corporations "which amount pays all

21. Oswego, N. Y.: 1,761 feet of \$3.00 per foot. Types of construction 6-12 and 18 duct. vitrified tile encased in 5 inches of concrete. Conduit not now in use. City contemplates

22. Port Jervis, N. Y.—This city has

23. Geneva, N. Y .- Owns municipal ice corporations at 5 cents per lineal

24. Buffalo, N. Y .- City owns only a small amount of main and lateral ally. (Monthly Bulletin, Civic Club miles of streets annualy must be of Allegheny County, March, 1916.) cleared of overhead wires; the streets 8. Detroit: No new wires or poles to be cleared are decided upon by the are allowed to be erected within half department of public works. This a mile of the city hall: elsewhere by department has just recommended that

miles of streets have thus far been 1916, issue of "Municipal Journal.") fiber duct encased in Portland cement ence of Mayors and other City Offi,concrete. (In most of the smaller cials, Wm. P. Capes, Director, Albany. New York state cities the conduits 2 pp. Jan. 29, 1916.

mileage of 44.60 miles. City rental 4. "Ordinances of Various Cities receipts, 1911; \$3003.

27. Des Moines, la.-1909 Census 5 is used exclusively by city. 28. Grand Rapids, Mich. -1909 Cen. merce.

panies operating since 1911 must first sus: 4.00 total mileage: 4.00 used by merce.

30. New Castle, Pat-1909 Census: NICK PLAYS WITH MUCH 3.50 total mileage: 1. used by city. 31. Portland, Me. - 1909 Census: 32. Portland, Ore. - 1909 Census:

33. New Britain, Conn,-1909 Cencables underground was considered town district. Existing wires and poles sus: 1.50 total mileage. 1911 Census The city, as stated above, possesses 34. Salem, Mass. - 1909 Census: 1.00 total meleage.

35. St. Joseph, Mo.-1909 Census: 6.2 total mileage. 36. St. Louis, Mo.-1909 Census: .60; .60 used by city.

37. Oakland, Cal. - 1909 Census .20 total mileage, .20 used by city. 38. Lancaster, Pa. -1909 Census: .20 total mileage. 39. Pueblo, Cal.-1909 Census: .06 crown and eagle.

total meleage; .06 used by city. According to the 1911 Census (See IOWA MAN CREATES Reference No. 7, below), page 183, only cities of all those having conduits in that year obtained revenue from them.

sulted in connection with the compila. popping popcorn. He developed it by telephone company nearly 700,000 feet tion of this report, may be referred to crossing common popcorn with red

this figure be increased to 4 instead of reprinted as an article entitled "Over- I 2 miles of streets per year. About 24 head Wires in Streets" in the June 8 cleared. The utility companies use 2. "Municipal Subways in New multiple tile duct conduits generally York State." Report No 87 of the n their construction and recently the New York State Bureau of Municipal electric light company has been using Information of the N. Y. State Confer-

have been laid by private corporations | 3. "American Municipal Progress. under franchise created by the city.) By Chas. Zueblin. (New York, 1916). 25. Erie, Pa.-The United States (See section of "Overhead Wires" Bureau of the Census in 1909 reported commencing on page 62, and referthis city as having a total conduit ences in the several pages following.)

Regulating the Placing of Wires Under-26. Davenport, la. - The United ground," Milwaukee Municipal Refer-States Bureau of the Census in 1909 ence Library. 5 pp. November, 1914. reported this city as having a total 5. "The Removal of Overhead conduit mileage of 17.02 miles, of Wires." By Frederick L. Ford. Ameriwhich 6 were used exclusively by the can Civic Association, Leaflet No. 13, March, 1907.

6. "General Statistics of Cities Report: 14.75 total mileage, of which 1900." Special Report Bureau of the Census, U. S. Department of Com-

7. "Financial Statistics of Cities 1911." Special Report Bureau of the 28. Fall River, Mass:-1909 Cen. Census, U. S. Department of Com-

### CHEAPER DECK NOWADAYS

passes a great deal of his time playing whist, of which he is very fond. In pre-war times whist was one of the most popular court diversions in Russia, and the emperor had a special de luxe card which was made for his exclusive use. One thousand two hundred packs of these imperial cards were used every year, and they cost the Russian government about \$7 hats of the Italian soldiers, and the a pack, being made of the finest linen | Serbian colors. Scotch plaids have rags, with a watermark of the imperial

ARTHUR, Ia.-Jerry Fiske has and there." References:-The following publica- made his fortune by out-Burbanking tions, most of which have been con- Burbank with the creation of selfpeppers, producing a latent heat. The the sale of a Federal truck to the 1. "Report on Removal of Wires corn, immediately upon being harvest- Gomes Express Co. this week. The

LONDON, England —There has never been a time when women were more willing to accept standard dress or uniforms than they are at present.

That is the most marked effect of the war upon women's dress. All uniforms have acquired dignity in women's eyes. The housemaid does not object to the cap and apron badge of servitude, the worker in the bank dons an overall cheerfully, women in various organizations wear their khaki, the Red Cross and volunteer aid workers are proud of their uni-

An expert French designer, discuss-

ing these changes, says: "There always will be the women who want fripperies, the women who try to insist upon something quite different from the style of the moment, but nowadays their number is LONDON, Eng., Oct. 15.-According greatly diminished. The uniform o a Petrograd despatch, Nicholas Ro- idea has arrived. It may mean the manoff, the deposed Russian emperor, total extinction of dressmaking as a creative art, but there will be developments on other lines.

"There has never been a great war which has not influenced fashion in a picturesque or even gruesome fashion, and this world war has done its share. We had a fashion adopted as a compliment to each Ally, the Rusgiven the Parisiennes great joy.

"Khaki shades are in vogue for spring and summer costumes, and the SELF-POPPING CORN blue-gray, with touches of crimson. of the French uniforms, is seen here

TRUCK SOLD

The von Hamm-Young Co. reported unexpected business.



# Your Shopping Problems Are SOLINED!

The BOSTON STORE, at 150 North King Street,

is offering bargains that should appeal to every man or woman in Honolulu who appreciates the value of a dollar and wants to make it go as far as possible. Read the list over. Can you imagine better opportunities?

## This Big Sale Is Now In Full Swi

| We have a full line of LADIES' SILK SWEATERS   | which will be marked down        |
|--|----------------------------------|
| Values \$25.00, \$20.00 and \$15.00 will go a  | t\$12.95                         |
| Values \$15.00 and \$10.00 will go at  |                                  |
| All-wool hand-knitted, values \$8.00 and \$  |                                  |
| Special extra values, \$7.50   | 3.95                             |
| 1 lct Assorted, \$7.00, \$8.00 and \$9.00 val  |                                  |
| LADIES' SUITS AND COATS, suitable for travel wool, reduced from \$30.00 and \$40.00 to | ing, all fine serge and          |
| LADIES' COTTON CREPE DRESSES all reduced   | 1 25 per cent.                   |
| LADIES' NIGHT GOWNS  | 75c, 95c, \$1,15, \$1.25, \$1.95 |
| CREPE DE CHINE UNDERSKIRTS   | \$3.95                           |
| CORSET COVERS  |                                  |
| LADIES' VESTS  |                                  |
| BRASSIERES   |                                  |
| SILK SHIRT WAISTS  | \$3.95                           |
| LINEN AND VOILE SHIRT WAISTS   | 95c and up                       |
| SILKALINE KIMONOS  | \$2.95                           |
| FRENCH CREPE   | \$1.65                           |
| 300 LADIES' DRESSES  | \$1.95                           |
| 100 dozen LADIES' TAN HOSE   | 10c a pair                       |
| 100 dozen LADIES' BLACK HOSE   | 20c a pair                       |
| 25 dozen LADIES' SILK HOSE   | 45c a pair                       |
| 20 dozen LADIES' WHITE SILK HOSE   | 65c a pair                       |
| CHILDREN'S WHITE DRESSES, sizes 1 to 16  |                                  |
| CHILDREN'S GINGHAM PLAIDS  |                                  |
| CHILDREN'S ROMPERS   | 30c to 85c                       |
| 1 lot of LADIES' FINE CORSETS  | 45c                              |
| 1 lot of LADIES' FINE CORSETS  | 95c                              |
| SHEETS, PILLOW CASES, BED SPREADS.   |                                  |

| ,          | low in rull 3v   | ving .  |
|------------|--|---|
|            | EMBROIDERED PILLOW CASES   | 45c each; 2 for 75c                                     |
|            | 100 dozen TURKISH TOWELS   |   |
|            | 50 dozen TURKISH TOWELS  |   |
|            | 50 dozen TURKISH TOWELS  | 25c each  |
|            | 15 dozen TURKISH TOWELS  | 35c and 45c each  |
|            | SHOES FOR MEN AND CHILDREN will be   | cut 20 per cent.  |
|            | CHILDREN'S MARY JANES  | \$1.65 to \$1.75  |
|            | BOYS' SUITS  | \$4.75 to \$6.25  |
|            | 100 MEN'S SUITS  | \$11.65   |
| 4 100      | SILK UNDERSHIRTS AND DRAWERS, kn<br>We have NECKTIES, UNDERSHIRTS, DR<br>GOWNS and a thousand different articles that<br>MEN'S CAPS, Silk and Wool   | AWERS, PAJAMAS, NIGHT-<br>we are unable to mention here |
|            | GARTERS, good quality  | 10c a pair  |
|            | TOILET POWDER, worth 15c a tin, will sell at   |   |
|            | TOILET SOAP, fine, good for the bath tub   | 15c   |
|            | PANAMA HATS, worth \$6.50, will sell for   | 20c   |
|            | PANAMA HATS, worth \$6.50, will sell for   | \$3.95  |
|            | GOOD QUALITY BELTS will go at  |   |
|            | 1 lot of CANVAS SHOES, rubber bottoms, wil   |   |
|            | 1 lot of LADIES' BACK COMBS, latest novelty  | y, for25c to \$1.95 each                                |
|            | A few dozen LADIES' WAISTS   |   |
| 3          | MEN'S SCRIVEN DRAWERS, sell for \$1,00   | everywhere 65c  |
|            | 1 lot MEN'S WOOLEN SHIRTS, good for outin  |   |
|            | 1 lot of GENTS' LINEN COLLARS will go  |   |
| ij         | 1 lot of GENTS' WHITE SHIRTS, sizes 16 to  |   |
| 27.0 36.00 | 1 lot BOYS' AND GIRLS' OVERCOATS, all<br>TRUNKS AND SUITCASES; prices cut in pr  |   |
| 0,01100    | 1 lot of RIBBON; your choice, per piece, at  | 5c, 10c, 15c  |
|            | CONTROL MADE A TOP NAMES AND SECURIOR CONTROL OF THE SECURIOR SECU |   |

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